

What is claimed is:

1. A voltage stabilizing circuit for a high-voltage/deflection separation type video display appliance, comprising:

5 an SMPS transformer for receiving an electric power through its primary winding and deriving voltage in its secondary winding;

a regulation compensating coil for inducing an electric power corresponding to the electric power from the secondary winding of the SMPS transformer;

10 a PWM control circuit for receiving the electric power induced in the regulation compensating coil to output a PWM control signal corresponding to the received electric power; and

a switching section for switching the input electric power inputted to primary winding of the SMPS transformer according to the PWM control signal from the PWM control circuit.

15 2. The voltage stabilizing circuit as claimed in claim 1, further comprising a waveform converting section for synchronizing a frequency of the PWM control circuit with a horizontal frequency.

20 3. The voltage stabilizing circuit as claimed in claim 1, wherein the waveform converting section comprises:

a horizontal output transformer for receiving and including an amplified horizontal driving signal;

a wire, wound around a magnetic core of the horizontal output transformer, for detecting the signal induced in the horizontal output transformer; and

25 an induced signal wave form converting circuit for receiving and converting the signal detected by the wire into

4. The voltage stabilizing circuit as claimed in claim 3, wherein the specified wave signal is a sawtooth wave signal

5 5. The voltage stabilizing circuit as claimed in claim 1, wherein the switching section comprises a transistor for performing a switching operation according to the PWM control signal, and its emitter collector terminals are connected between one end of the primary winding of the SMPS transformer and ground.

10 6. The voltage stabilizing circuit as claimed in claim 1, further comprising a rectifier circuit, connected to the secondary winding of the SMPS transformer, for rectifying the voltage outputted from the SMPS transformer.

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